

QUALIFICATION TRAINING RANGE (QTR) NARRATIVE DESCRIPTION

Purpose: The information in this document is based on TC 25-8 Training Ranges dated 5 April 2004, FCC 17809. This range is used to train and test soldiers on the skills necessary to detect, identify, engage and defeat stationary and moving infantry targets in a tactical array with their prescribed weapons. In order to centralize training and reduce land, maintenance, and unit overhead requirements, this range combines the capabilities of the:

- Modified Record Fire Range (17806)
- Automated Sniper Field Fire Range (17812)
- Combat Pistol/Military Police Firearms Qualification Course (17822)
- Multipurpose Machine Gun Range (17833)

This range supports the following weapons:

- M2 HB Machine Gun (MG)
- Mk -19 40mm Grenade MG
- M60 MG
- M240B MG
- M249 Squad Automatic Weapon (SAW)
- M249 Automatic Rifle
- M24 Sniper Rifle
- M16A1/A2 Rifle
- M4 Carbine
- M9 Pistol

This range supports night fire operations.

Firing Line: Fighting positions must be provided along the firing line within each lane. Fighting positions should be on slightly elevated ground and designated with numbered markers. 10 one-man and 5 two-man fighting positions are required; lanes 2, 5, 9, 12, and 15 will be 2-man fighting positions. The standard fighting positions are shown in the Civil Details in the Appendix of this document.

Downrange Area:

Layout. See the Layout Details in the Appendix of this document for a typical Qualification Training Range layout. The range has 16 lanes, each 30 meters wide. These lanes are used for Rifle Qualification, Sniper Field Fire, Machine Gun and Mk-19 fire. Located between the 16 lanes are 15 lane of CP/MPQC. The firing points for the CPQC are online with the 16 fighting positions of the rifle/machine gun lanes; however the first firing point for the MPQC is 8 meters behind the CPQC firing point.

The standard layout provides for:

# of Lanes	Purpose	Lane Number
32	Rifle/Machine Gun Zero	1-16
16	Modified Record Fire (MRF)	1-16
15	CP/MPQC	CP/MPQC 1-15
5	Light/Medium Machine Gun	2, 5, 9, 12, 15
10	Sniper Field Fire	2, 5, 9, 12, 15

Targets. The targetry on the QTR is a composite of the targetry used on the separate ranges that make-up the QTR. For in depth information to the target layout of the separate ranges, please refer to the appropriate design manual.

The 600 and 800 meter SITs are emplaced in one of three different emplacement configurations. The configurations are: check, linear, or linear with depth (see the Civil Details in the Appendix of this document). The check or the linear with depth configurations can be constructed with the target emplacements either left or right of the centerline.

Target distances from the firing line will conform as closely as possible to those established in the standard, but may vary up to ± 5 meters in order to avoid undesirable locations such as depressions or drainage features. The effect of the location variation is less significant at targets further downrange.

Primary features include:

429	Stationary Infantry Targets (SITs)
20	Stationary Armor Targets (SATs)
20	Moving Infantry Targets (MITs)
10	SIT emplacements with 2 target mechanisms each (500 m and 700 m)
32	Lanes Rifle/Machine Gun Zero
16	Lanes Modified Record fire
15	Lanes Combat Pistol Qualification
5	Lanes Light Machine Gun
5	Lanes Sniper Field Fire
3	Lanes Heavy Machine Gun/Mk-19
10	One-man foxholes
5	Two-man foxholes

Targetry: All targets are fully automated and the event specific target scenario is computer driven and scored from the range operations center. The range operating system is fully capable of providing immediate performance feedback to the using participants.

Associated Range Operations and Control facilities:

Standard Small Arms ROCA Facilities with the option of:

One additional General Instruction Building (17120)

One additional Ammo Breakdown Building (17129)

Requirement Documents:

FM 3-22.9 Rifle Marksmanship

FM 3-22.10 Sniper Training

FM 3-22.27 Mk 19, 40mm Grenade Machine Gun, Mod 3

FM 3-22.31 40mm Grenade Launcher M203

FM 3-22.65 Browning MG Caliber 50 HB M2

FM 3-22.68 Crew Served MGs 5.56mm and 7.62mm

FM 3-23.35 Combat Training with Pistols, M9 and M11

Additional Information: This range enhances throughput capability for units with multiple weapons densities by consolidating unit efforts to operating one training facility. The Stationary Armor Targets at 1100 and 1500 meters are to be battery operated and radio controlled.